GORBATOV, A., inzhener.

Calculating piping for viscous and plastic dairy products. Moloch. prom. 18 no.6:16-17 '57. (MLRA 10:6)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.
(Dairy industry--Equipment and supplies)

GORBATOV, A., inzh.; GORBATOVA, V., inzh.

Physical properties of broth, aspic, and fat. Mias. ind. SSSR 29 no.1:53-55 '58. (MIRA 11:3)

1.Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

(Packing house products)

MAKSIMOV, A., inzh.; LIVSHITS, S., inzh.; GORBATOV, A., inzh.

Mechanized washing of chutes. Mias. ind. SSSR 29 no. 4:11-13 '58.
(MIRA 11:8)

1. Moskovskiy myasoperera batyvayushchiy zavod (for Maksimov, Livshits). 2. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti (for Gorbatov).
(Packing houses--Equipment and supplies--Cleaning)

GORBATOV, A., inzh.; MAKSIMOV, A., inzh.; LIVSHITS, S., inzh.

Hydraulic conveying of intestine casings. Mias. ind. SSSR 29 no.6:46-47 '58. (MIRA 11:12)

1.Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy produktsii (for Gorbatov). 2.Moskovskiy myasopererabatyvayushchiy zavod (for Maksimov, Livshits).
(Packing houses--Equipment and supplies)
(Sausage casings)

LIVSHITS, S., inzh.; MAKSIMOV, A., inzh.; GORBATOV, A., inzh.

Innovations in the mechanization of sausage manufacture.
Miasn.ind.SSSR 30 no.2:8-11 '59. (MIRA 13:4)

1. Moskovskiy myasoperera batyvayushchiy zavod (for Livshits and Maksimov). 2. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti (for Gorbatov).
(Sausages)

GORBATOV, A., inzh.

Calculating pressure losses during the transfer of minced meat in pipes. Mias. ind. SSSR 30 no.3:49-51 '59.

(MIRA 12:9)

1.Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

(Packing houses--Equipment and supplies)

FEDOROV, N., kand.tekhn.nauk; GORBATOV, A., inzh.

Calculation of chutes for meat stuffing. Mias.ind.SSSR 31 no.1:17-19 '60. (MIRA 13:5)
(Packing houses--Equipment and supplies)

Gorbatov, A.

S/107/60/000/07/004/004
E192/E482

AUTHOR: Gorbatov, A.

TITLE: A Highly Stable Power Pack

PERIODICAL: Radio, 1960, No.7, pp.55-56

TEXT: The power pack has the following parameters: output voltage can be varied between 330 and 550 V, maximum load current is 0.3A at 550 V, output resistance is less than 1 Ω, and output hum at the maximum current is less than 20 mV at 400 V. A detailed circuit diagram of the device is shown in Fig.1. The rectifier is based on a bridge circuit consisting of germanium diodes. In order to equalize the inverse voltages, each diode is shunted with a resistance. The rectifier is followed by a time switch which is in the form of a Schmitt trigger circuit provided with an integrating network. The left-hand side anode of the Schmitt trigger tube contains the coil of a polarized relay. The integrating circuit $R_{17}C_1$ has the time constant of 230 seconds. The circuit is actuated when the grid of the left-hand side triode of the tube reaches a potential of 250 V; this takes 60 seconds. The relay contacts connect the stabilizer circuit to the rectifier. The smoothing filter is of the Π-type

Card 1/2

S/107/60/000/07/004/004
E192/E482

A Highly Stable Power Pack

and consists of a choke having an inductance of 4 H and 2 sets of 40 μF condensers connected in series. The voltage stabilizer is output-voltage controlled and employs a high-gain 2-stage amplifier. The reference-voltage source is provided by a stabilivolt tube giving a voltage of 105 V. The stabilization coefficient of the system is 500. The magnitude of the output voltage is controlled by the potentiometer R34. The physical layout of the stabilizer is illustrated in Fig.2 and 3 and a photograph of its front panel is shown on p.55. There are 3 figures.

Card 2/2

GORBATOV, A. V. Cand Tedh Sci -- " Study of the rheological properties of certain food products for the purpose of designing [redacted] inter-operational pipeline transport." Mos, 1961 (Min of Higher and Secondaty Scpecialized Education RSFSR. Mos Technological Inst of Food Industry). (KL, 4-61, 195)

FEDOROV, N.; SUKHORUKOV, A.; GORBATOV, A.

Economic effectiveness of adopting progressive forms of interoperational transportation. Mias.ind.SSSR 32 no.2:39-41 '61.
(MIRA 14:7)

(Meat—Transportation)

FEDOROV, I., prof.; ROGOV, I., kand.tekhn.nauk; GORBATOV, A., kand.tekhn. nauk

Automatic machine for the production of sausage sticks. Obshchestv. pit. no.10:52-54 O '62. (MIRA 15:11)
(Sausages)

S/120/63/000/001/020/072
E140/E135

AUTHORS: Plotnikov, Yu.I., and Gorbatov, A.A.

TITLE: Recording electrometer for the study of induced e.m.f.

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1963, 92-94

TEXT: A recording electrometer has a sensitivity of 4 mV for half-screen deflection of the light beam in an electro-mechanical oscillograph. The input impedance can be varied between 10^6 and 10^{12} ohm. The zero drift does not exceed 1 mV during 12 hours. The designers had difficulty with the drift in characteristics of the output stage, due to variations in anode temperature with variation in output current.
There is 1 figure.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut
(Moscow Engineering-Physics Institute)

SUBMITTED: April 6, 1962

Card 1/1

GORBATOV, A.A. (Moskva)

Dynamic properties of a measuring channel with a pulse-width modulation. Mashinovedenie no.6:109-112 '65.

(MIRA 18:11)

GORBATOV, A. F. PA 63/49T20

USSR/Engineering Nov/Dec 48
Jet Burners
Boilers

"Experiment in Building Jet Burners for Chambers of Limited Volume," A. F. Gorbatov, Engr, 2 pp

"Kotloturbostroy" No 6

Gives results of tests undertaken by "Kolomensk" Mach Constr Plant in 1938 - 1940 on solving the problem of burning heavy liquid fuels in small chambers. Shows detail sketches of high-pressure boiler and turbo-reactive jet used in tests. Chart illustrates efficiency of jet as a function of fuel pressure.

63/49T20

1. GORBATOV, A. F.

2. USSR (600)

4. Karelia - Bee Culture

7. Bee culture in the Karelo Finnish SSR, Pchelovodstvo, 30, no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

GORBATOV, A.L.

[Intensification of agriculture in the U.S.S.R.; general problems. A bibliographic index] Intensifikatsiia sel'skogo khoziaistva SSSR; obshchie voprosy. Ukazatel' literatury. Moskva, 1964. 23 p. (MIRA 17:8)

1. Moscow. TSentral'naya nauchnaya sel'skokhozyaystvennaya biblioteka.

GORBATOV, A.L.; NALETOVA, N.B.; PALILOVA, I.G.; STREBELEV, Ye.Ye.

[Mineral fertilizers and their use; index of Soviet literature for 1961-1963] Mineral'nye udobreniia i ikh primenenie; ukazatel' otechestvennoi literatury za 1961-1963 gg. Moskva, 1964. 127 p. (MIRA 18:2)

1. Moscow. TSentral'naya nauchnaya sel'skokhozyaystvennaya biblioteka.

GORBATOV, A.L.; ALYAMOVSKAYA, M.N., red.

[Biological method of plan protection; bibliographical list of Soviet literature published in 1964-1965 comprising 210 items] Biologicheskii metod zashchity rastenii; bibliograficheskii spisok otechestvennoi literatury za 1964-1965 gg. v kolichestve 210 nazvanii. Moskva, 1965. 27 p. (MIRA 18:10)

1. Moscow. TSentral'naya nauchnaya sel'skokhozyaystvennaya biblioteka. Spravochno-bibliograficheskiy otdel.

GORBATOV, A. N.

GORBATOV, A. N. -- "INVESTIGATION OF THE PROCESS OF COVERING FLAME SURFACES WITH A PAINT SPRAY IN AN ELECTRIC FIELD." SUB 22 MAY 52, MOSCOW AVIATION TECHNOLOGICAL INST (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCES)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

GORBATOV, A.P.

GORBATOV, A.P.

A.D.Syrovatko's adaptation for eliminating the necessity for sucking fluids into pipettes with the mouth. Lab.delo 3 no.6: 52 N-D '57. (MIRA 11:2)

1. Iz sanatoriya No 18 (glavnyy vrach M.F.Kolerov), Tashkovo, Moskovskaya oblast'.
(PIPETTES)

PANOV, G.Ye., kand. tekhn. nauk; GORBATOV, A.T., gornyy inzh.; SHIPITSYN, A.K., gornyy inzh.

Using water and air stemming for loosening the massif in a longwall in the operation of the OMK complex. Ugol' 40 no.11: 62-63 '65. (MIRA 18:11)

1. Karagandinskiy politekhnicheskiy institut (for Panov, Gorbatov). 2. Shakhta No.70 kombinata Karagandaugol' (for Shipitsyn).

SURKOV, V.D.; FEDOROV, N.Ye.; KAZAKOV, S.P.; GORBATOV, A.V.

Investigating the flow of cheese curd in pipes. Izv.vys.ucheb. zav.; pishch.tekh. no.6:88-94 '58. (MIRA 12:5)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, Kafedra protsessov i apparatov, Kafedra gidravliki i gidravlicheskikh mashin i Kafedra tekhnologii moloka.
(Cheese) (Fluid dynamics)

GORBATOV, A.V.; KAZAKOV, S.P.

Investigating some physicomechanical properties of ground meat. Izv.vys.ucheb.zav.; pishch.tekh. no.5:117-125 '59. (MIRA 13:4)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, kafedra protsessov i apparatov pishchevykh proizvodstv.

(Meat)

FEDOROV, N. Ye.; GORBATOV, A.V.; KAZAKOV, S.P.; ROGOV, I.A.

Criterion equations of the flow of viscoplastic meat products in transportation tubes. Izv.vys.ucheb.zav.; pishch.tekh. no.1: 117-121 '60. (MIRA 13:6)

1. Kafedra protsessov i apparatov pishchevykh proizvodstv Moskovskogo tekhnologicheskogo instituta myasnoy i molochnoy promyshlennosti.

(Meat) (Hydrodynamics)

KRASNIKOV, V.V.; GORBATOV, A.V.

[Mass-transfer characteristics and structural-mechanical properties of food products] Massoobmennye kharakteristiki i strukturno-mekhanicheskie svoistva pishchevykh produktov. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1963. 38 p. (MIRA 17:12)

GINZBURG, Abram Solomonovich, prof.; MIKHEYEVA, Natal'ya Semenovna; BAB'YEV, Nikolay Nikolayevich; SYROYEDOV, Viktor Iudovich; GRACHEV, Yuriy Pavlovich; ZHURAVLEV, Vyacheslav Fedorovich; DASHEVSKIY, V.I.; FEDOROV, N.Ye., prof., retsenzent; SEREGIN, P.V., dots., retsenzent; GORBATOV, A.V., dots., retsenzent; ROGOV, I.A., dots., retsenzent; KOVALEVSKAYA, A.I., red.

[Processes and apparatus of the food industry; practical laboratory work] Protsessy i apparaty pishchevykh proizvodstv; laboratornyi praktikum. [By] A.S.Ginzburg i dr. Moskva, Pishchevaia promyshlennost', 1964. 270 p.
(MIRA 17:11)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, kafedra protsessov i apparatov (for Fedorov, Rogov, Gorbatov). 2. Vsesoyuznyy zaochnyy tekhnologicheskiy institut pishchevoy promyshlennosti (for Seregin).

FEDOROV, N.Ye.; GORBATOV, A.V.

X-ray study of the movement of sausage meat in pipes. Izv.vys. ucheb.zav.;pishch.tekh. no.5:127-129 '60. (MIRA 13:12)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. Kafedra protsessov i apparatov pishchevykh proizvodstv.

(Pipe--Hydrodynamics)

GORBATOV, A.V.; FEDOROV, N.Ye.; ROGOV, I.A.

Modeling of some food technology processes. Izv.vys.ucheb.zav.; pishch.tekh. no.1:143-146 '64. (MIRA 17:4)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, kafedra protsessov i apparatov pishchevykh proizvodstv.

L 05725-67 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)
ACC NR: AP6007835 SOURCE CODE: UR/0120/66/000/001/0190/0191

AUTHOR: Andreyev, Yu. A.; Beskrovnyy, I. M.; Gorbatov, E. A.

ORG: Institute of Nuclear Physics AN KazSSR, Alma-Ata (Institut yadernoy fiziki AN KazSSR)

TITLE: Automatic control of a high-voltage source

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1966, 190-191

TOPIC TAGS: automatic control system, power supply, electronic rectifier, voltage divider/ VS-22 electronic rectifier

ABSTRACT: A controlled high-voltage source based on a standard VS-22 rectifier is described. The unit may be used for automatically switching high voltages from -4 to +4 kv in steps of 20, 40, 100 or 200 v. The modifications made in the VS-22 unit are described. A block diagram of the rectifier is shown in the figure. A pulse from an external controlling device (e. g. a timer) moves step switch 4 by one position. This corresponds to a change in the output voltage by the selected step. The next pulse switches the voltage through still another step etc. A complete revolution of the step switch closes contacts which feed the control circuit 6 of the motor 5. Starting of the motor switches high-voltage divider 3 through one position. This sequence of

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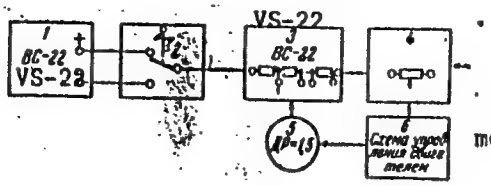
ACC NR: AP6007835



operations continues until the output voltage has been changed from -4 to +4 kv. The motor control circuit and arrangement for changing polarity are described. Operational tests show that the device is reliable and stable. Orig. art. has: 3 figures.

SUB CODE: 09/ SUBM DATE: 08Jan65/ ORIG REF: 004/ OTH REF: 000

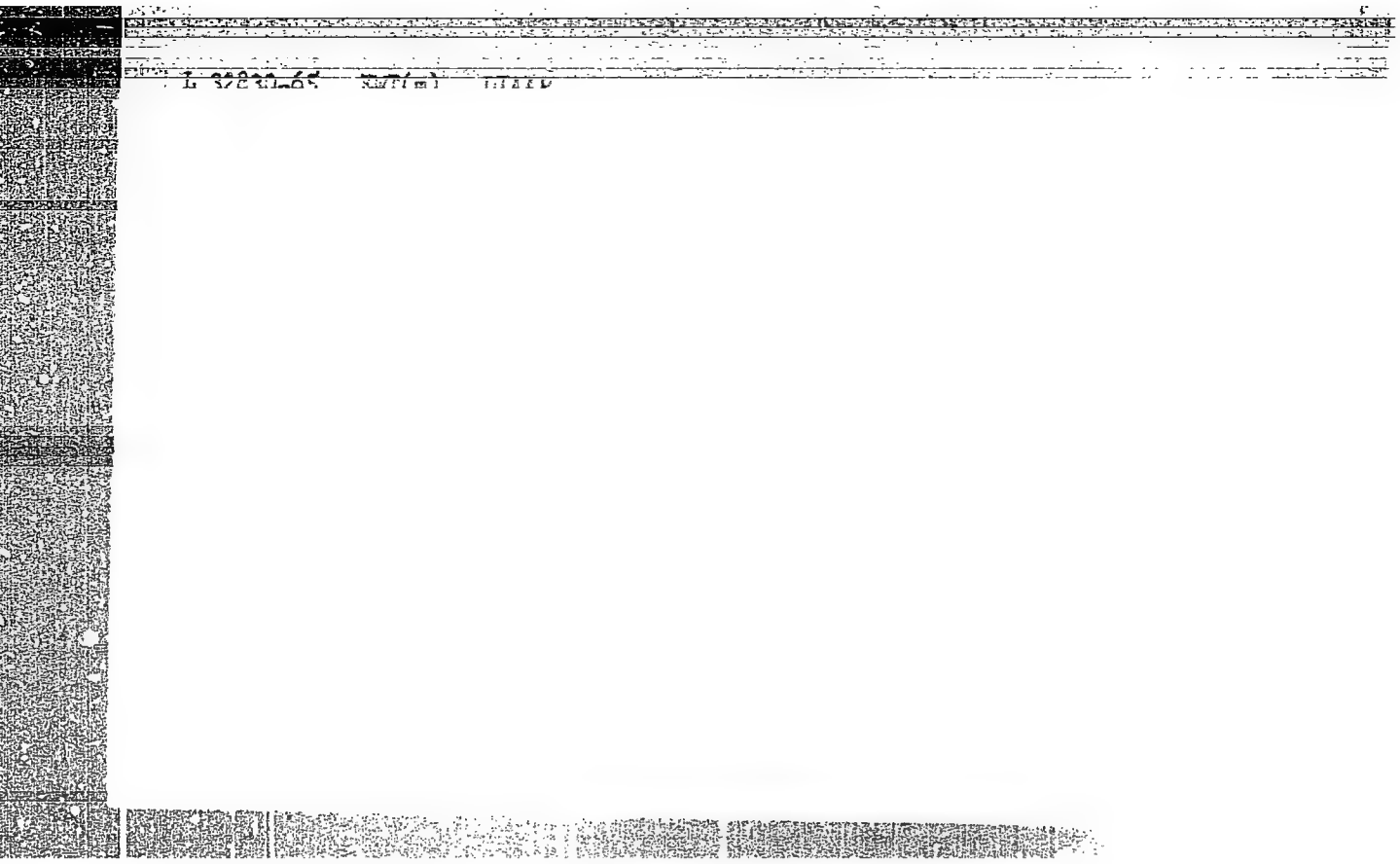
Card 2/2

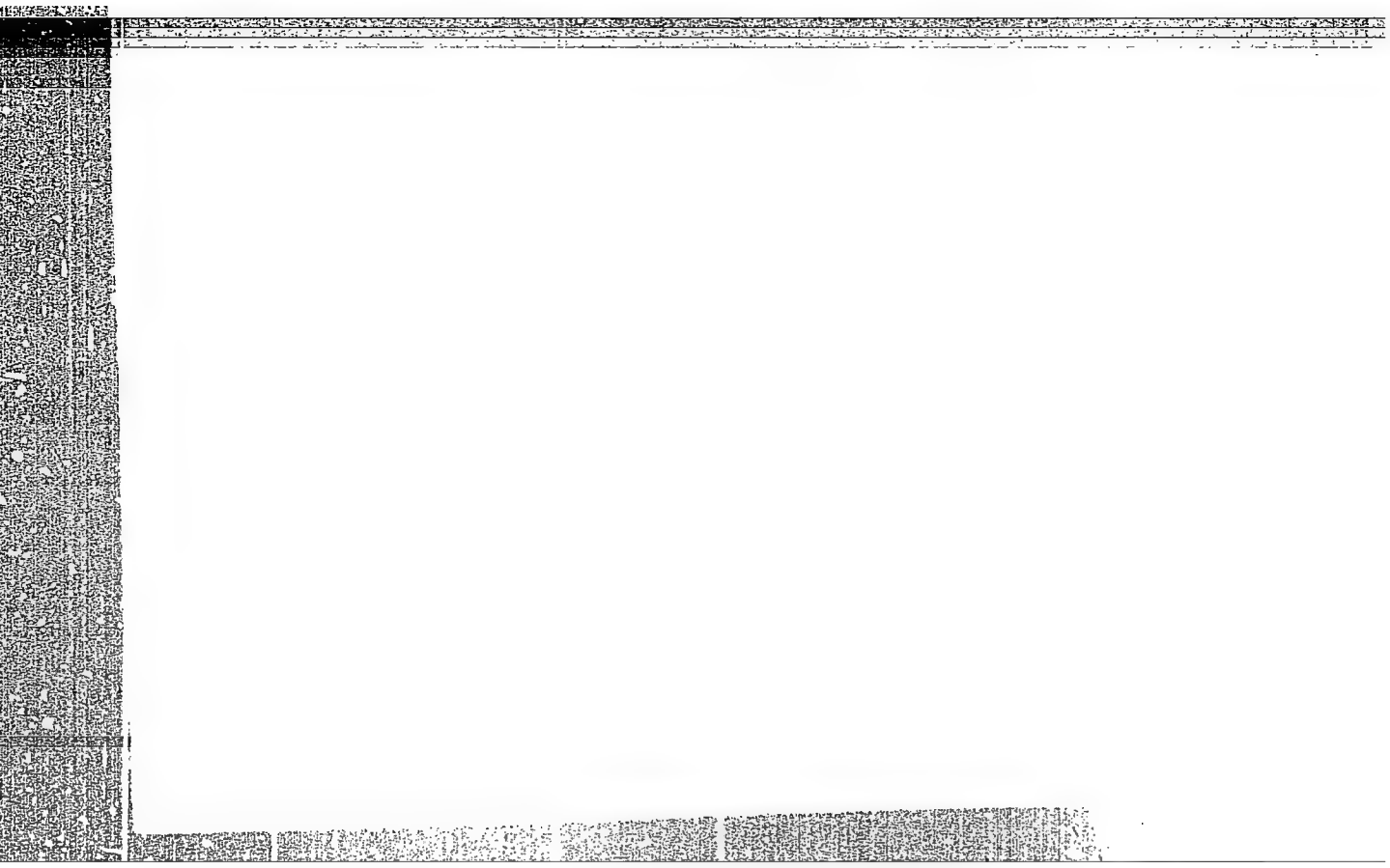
, Yu A.; GORBATOV, E. A.; KOBRIN, S. S.; LATYSHEV, G. D.

"Apparatus for the Investigation of Beta-Gamma Coincidences with Application of a Large Beta Spectrometer with Double Focussing."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

IYaF AN KazSSR (Inst Nuclear Physics, AS KazSSR)





APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516110003-4"

GURBATOV, G. A., Master Geolog-Mineralog Sci —(diss) "The use of the electromotive forces of pyrites and galenites for estimating the temperature of their formation." Moscow, 1957, 18 pp, (Min Geology & Minerals USSR. All-Union Sci-Res Inst of Mineral Deposits), 150 copies. (KL, No 40, 1957, p.91)

GORBATOV, G.A.; KRUGLOVA, V.G.; SIDORENKO, G.A.

Some characteristics of the change of thermoelectromotive forces of molybdenite from deposits of varous genetic types. Min.syr'e no.5:96-109 '62. (MIRA 16:4)
(Molybdenite—Thermoelectric properties)

GORBATOV, G.A.; ROZHKOVA, Ye.V.

Using some modern physical methods for studying the composition of mineral resources. Min.syr'e no.6:29-45 '62.

(Mineralogy, Determinative) (MIRA 16:4)

GORBATOV, G.A.; INDOLEV, L.N.

Using statistical analysis of the thermoelectromotive forces of galena for the interpretation of the primary zoning of ore formation as revealed by the studies in the Upper Menkeche deposit. Nauch.soob. IAFAN SSSR no.7:135-144 '62. (MIRA 16:3)
(Verkhoyansk Range—Galena—Electric properties)

ROZHKOVA, Ye.V.; GORBATOV, G.A.; SIDORENKO, G.A.; SOLOMKINA, S.G.

New methodological approach to the study of typomorphic characteristics of minerals based on beryllium. Min.syr'e no.7:45-54 '63. (MIRA 16:9)

(Beryllium—Analysis)

GORBATOV, V., dotsent

Improving the equipment and technology in the meat industry. Mias.ind. SSSR 33 [i.e.34] no.2:6-8 '63. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti.
(Meat industry)

GORBATOV, I.

Buyers and contractors are not necessary. Miss. ind. SSSR 29 no. 4:32 '58. (MIRA 11:8)

1. Zaveduyushchiy bazoy Dzhankoyskoy mezhrayonnoy skotopyr'yevoy kontory.

(Meat industry)

84940

S/051/60/009/003/017/019/XX
E201/E191

24.7300

AUTHORS: Ayvazova, A.A., and Gorbatov, I.A.

TITLE: A Study of the Intermolecular Interactions in n-Dichlorobenzene near its Crystallization Point

PERIODICAL: Optika i spektroskopiya, 1960, Vol 9, No 3, pp 415-417

TEXT: Thermal motion of molecules in n-dichlorobenzene (a non-polar liquid) near its crystallization point (it melts at 52.9 °C) was investigated using Raman line widths. From the width of the 4358 Å line the relaxation time τ (the lifetime of a molecule in a given state) was determined by a method suggested by Vuks (Ref 3). A diffraction spectrometer ДФС-4 (DFS-4) with a 1200 lines/mm grating, was employed. A mercury lamp ПРК -2 (PRK-2) was used as the light source. Fig 1 shows that log τ rose linearly with 1/T between 90 and 65 °C. Between 65 and 60 °C a relaxation-time minimum was observed, showing that changes occurred in the liquid. Fig 2 shows the dependence of the relative Raman intensity on temperature. A maximum in Fig 2 was displaced somewhat compared with a minimum in Fig 1. This was because the Raman intensity is very sensitive to changes of

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S/051/60/009/003/017/019/XX
E201/E191

A Study of the Intermolecular Interactions in n-Dichlorobenzene near its Crystallization Point

properties of substance. Such changes (precrystallization ordering) began at 70 °C in n-dichlorobenzene and were completed at 63-64 °C. The Raman intensity maximum indicated a maximum of the non-uniformity in n-dichlorobenzene, while the relaxation time minimum denoted completion of precrystallization changes. Measurements of the refractive index (Fig 3) showed that the extrema in the Raman intensity curves were not due to variations of the refractive index. Acknowledgement is made to B.M. Nosenko for his advice.
There are 3 figures and 7 Soviet references.

SUBMITTED: February 8, 1960

Card 2/2

GORBATOV, I.A.

Light characteristics of mercury lamps for the study of diffused light. Nauch. trudy TashGu no.221.Fiz. nauki no.21:65-71 '63. (MIRA 17:4)

GORBATOV, I.D. (g. Shakhty)

Novocain-penicillin block therapy of tenosynovitis crepitans in coal miners. Sov.med. 18 no.6:30-31 Je '54. (MLRA 7:6)

1. Iz ambulatorii shakhty imeni Petrovskogo (zav. I.M.Ozheredova)
(TENOSYNOVITIS
*crepitans, ther., novocain-penicillin block)
(ANESTHESIA, REGIONAL, ther. use
*procain-penicillin block in tenosynovitis crepitans)
(PROCAINE, ther. use
*procain penicillin block in tenosynovitis crepitans)
(PENICILLIN, ther. use
*procain-penicillin block in tenosynovitis crepitans)

GORBATOV, I.I

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PHASE I BOOK EXPLOITATION SOV/5556

Moscow. Institut stali.

Novoye v teorii i praktike proizvodstva martenovskoy stali (New [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Metallurgizdat, 1961. 439 p. (Series: Trudy Mezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

Card 1/14

New [Developments] in the Theory (Cont.) SOV/5556

COVERAGE: The collection contains papers reviewing the development of open-hearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, B.P. Nam, V.I. Yavoyskiy, G.N. Oyks and Ye. V. Chelishchev (Moscow Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets (Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp i molot" Metallurgical Plant); V.A. Fuklev (Central Asian Polytechnic Institute)

Card 2/14

New [Developments] in the Theory (Cont.) SOV/5556

and M.I. Beylinov (Night School of the Dneprodzerzhinsk Metallurgical Institute). References follow some of the articles. There are 268 references, mostly Soviet.

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GORBATOV, L.A.

PHASE I BOOK EXPLOITATION SOV/4618

Geofizneftegllerazvedka, trest. Upravleniye geofizicheskikh rabot

Geofizicheskaya razvedka, vyp. 2 (Geophysical Survey No. 2) Moscow, Gostoptekhizdat, 1960. 125 p. (Series: Obmen proizvodstvennym opytom) 3,000 copies printed.

Sponsoring Agencies: Glavnoye upravleniye geologii i okhrany nedr pri Sovete Ministrov RSFSR; Upravleniye geofizicheskikh rabot trest Geofizneftegllerazvedka.

Ed.: O.K. Glotov; Executive Ed.: B.M. Yenganz; Tech. Ed.: L.V. Ganina.

PURPOSE: This book is intended for engineers and technicians working in geology and geophysics.

COVERAGE: This is a collection of 11 articles on geophysical methods and techniques of surveying mineral deposits. The authors discuss problems in processing and interpreting the results of surface and underground gravimetric surveys and seismic logging. New types of geophysical instruments and equipment, the AFI-2 and AFI-U amplitude-phase meters, the small portable CP-55 ultrasonic seismoscope, two-dimensional perforated sheet material for modeling seismic waves, a pantograph, and a modified ISh-4 inclinometer are described in detail. No personalities are mentioned. References accompany individual articles.

AVAILABLE: Library of Congress

JA/dwm/gmp
12-19-60

Card 3/3

GORBATOV, L.A.

Change in the existing circuit of the ISH-4 inclinometer. Geofiz. razved. no.2:125-127 '60. (MIRA 13:12)
(Inclinometer)

GORBATOV, L.A.

Some features in the use of logging stations with electronic self-recorders. Geofiz.razved. no.10:80-82 '62. (MIRA 15:12)
(Logging (Geology)—Electronic equipment)

GORBATOV, I.A.

Optical characteristics of mercury lamps used in the study of scattered light. Prib. i tekh. eksp. 8 no.5:217-218 S-O '63. (MIRA 16:12)

1. Tashkentskiy gosudarstvennyy universitet.

GORBATOV, M.

More, better, quicker! Sov.profsoiuzy 7 no.3:12-14 F '59.
(MIRA 12:3)

1. Profgruporg upravleniya No.20 tresta 101 Glavleningradstroya.
(Leningrad--Construction industry)

GORBATOV, N.

Application of the gradual approximation method to strength calculations of symmetrically loaded rotary-shell construction. p. 571

STROJIRENSTVI (Ministerstvo tezkeho strojirenstvi, Ministerstvo vseobecneho strojirenstvi) Praha, Czechoslovakia, Vol. 9, no. 8, Aug. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 2, Feb. 1960

Uncl.

Z/032/61/011/001/001/008
E073/E335

AUTHOR: Gorbatov, N., Engineer Doctor

TITLE: Calculating the Dimensions of Thick-walled Tubes Under Stress at High Temperatures

PERIODICAL: Strojírenství, 1961, Vol. 11, No. 1, pp. 4-12

TEXT: The author discusses the theoretical and practical bases for the determination of the wall thickness of tubes with a diameter ratio $r_2/r_1 \geq 1.3$ under creep conditions and gives a detailed numerical example. In most engineering materials creep will be more pronounced at temperatures above 400 °C. The author considers only creep during the second phase of the idealised creep curve, i.e. the phase in which creep is at a constant rate and can be expressed by the empirical equation:

$$\frac{d\varepsilon_p}{dt} = \dot{\varepsilon}_p = k\sigma^n \qquad (1.2)$$

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Calculating the Dimensions of Thick-walled Tubes Under Stress at High Temperatures

where k and n are empirically determined material constants at the test temperature. The generalised form of this equation will be:

$$\dot{\varepsilon}_p = B_1(t)\sigma^n \qquad (2.2)$$

where $B_1(t)$ is a function of time. This equation is applied for creep at a constant stress. Graphs are included which were originally published by S.D. Ponomarev (Ref. 1: Strength Calculations in Engineering, Mashgiz, Moscow, 1958). For evaluating the stresses the author commences with the Mohr circle and gives the basic formula originally derived by L.M. Kachanov (Ref. 9) for calculating the rate of creep in three dimensions. Up to the limit of elastic deformation, the stress distribution is given by the theory of elasticity and is independent of time. As flow commences, both deformation and

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stress distribution become a function of time. After a prolonged period of flow, stresses approach a limit value and the rate of creep becomes constant. The calculations in the present article refer to this steady state. Following that, the author discusses the factors which influence the choice of materials, such as the temperature distribution, local stresses, required lifetime, permissible deformation at the end of lifetime, the tension in threaded joints to ensure tightness, their relation to the mechanical and physical properties of materials and mentions corrosion. The criteria of strength were deduced from experimental data obtained with loads applied in the axial direction only, as data with combined loading are yet lacking interpretation. For the elastic state the author applies either the formula of Huber-Mises-Henky for the reduced stress:

Calculating the Dimensions ....

$$\sigma_{red} = \frac{1}{\sqrt{2}} \sqrt{(\sigma_1 - \sigma_2)^2 + (\sigma_2 - \sigma_3)^2 + (\sigma_3 - \sigma_1)^2} \qquad (4.2)$$

or that of Guest :

$$\sigma_{red} = \sigma_1 - \sigma_3 \qquad (4.3)$$

where $\sigma_1 \geq \sigma_2 \geq \sigma_3$ - main stresses.

Under steady-state creep in the plastic state the reduced stress should be calculated separately for the creep limit and for the long-run strength for the selected number of operating hours. For tubes both values of the reduced stresses can be approximately expressed by the above given formula of Guest:

$$\sigma_{red} \doteq \sigma_1 - \sigma_3 \qquad (4.4) ,$$

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Calculating the Dimensions .....

σ'_1 being the maximum main stress and

σ'_3 being the minimum main stress.

Following that, the stresses in the tangential, radial and axial directions are evaluated for a thick-walled ($r_2/r_1 > 1.3$) and closed cylinder under internal and external pressure. The author arrives at formulae which are stated to be similar to those embodied in the Czech Standard Specification ČSN 13 1010, worked out by ÚTD, the Soviet specification TsKTI, the American Piping Code, ASME specification, etc. Thus, for calculating the stresses in electrically-welded tubes under conditions of steady-state creep the Equations (5.24) and (5.25) can be used which, in the case of $p_2 = 0$ and $p_1 = p$, can be written in the simplified form of Eqs. (5.27) and (5.28). In these equations:

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Calculating the Dimensions .....

p_1 - internal pressure,
p_2 - external pressure,
r_1 - internal tube radius,
r_2 - external tube radius,
r - polar coordinate,
$\beta = r_2/r_1$,
$\nu = 1/n$.

A numerical example is included for a tube of the Soviet steel LA3 with r_1=11 mm, r_2 =22 mm, p= 300 atm., t= 650 °C, a required service life τ of 10^5 hours and a permissible deformation after 10^5 hours of 1%.

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Calculating the Dimensions .....

There are 10 figures, 3 tables and 22 references:
3 Czech and 19 non-Czech.

ASSOCIATION: SVÚTT, Prague

Card 7/7

GORBATOV, N.A.

BOTVINKO, M.Ye., laureat Stalinskoy premii, inzhener; GIRSKIY, V.A., laureat Stalinskoy premii, inzhener; GORBATOV, N.A., laureat Stalinskoy premii, inzhener [deceased]; LAPIR, I.L., laureat Stalinskoy premii, inzhener; BROMBERG, A.A., professor, redaktor; ARSEN'YEV, A.A., kandidat tekhnicheskikh nauk; TOVSTOLUZHSKIY, N.I., redaktor; KOVALIKHINA, N.F., tekhnicheskiy redaktor

[Concrete, asphalt concrete and rock crushing plants in road building; planned designs and standard equipment] Betonnye, asfal'tobetonnye i kamnedrobil'nye zavody na dorozhnom stroitel'stve; proektnye resheniia i tipovoe oborudovanie. Pod red. A.A.Bromberga. Moskva, Ministerstvo avtomobil'nogo transporta i shosseinykh dorog SSSR. Pt. 1. [Rock crushing, cement, and concrete plants and centers for the manufacture of concrete plates and reinforced concrete building units] Kamnedrobil'nye i tsementobetonnye zavody tsekhi i bazy dlia izgotovleniia betonnykh plit i zhelezobetonnykh detalei. 1954. 160 p. [Microfilm]
(Concrete) (Asphalt concrete) (MLRA 7:10)
(Stone, Crushed)

GORBATOV, N.I.

Two devices for determining moments and radii of inertia of bodies and plane figures relative to parallel axes. Nauch. zap. Od. politekh. inst. 48:11-16 '62. (MIRA 17:5)

GORBATOV, N. I., Engineer

Mbr., Chkalov Automobile Spart Part Plant (-1945-)

"Soldering Hard Alloy Blades and High-speed Steel Blades by Means of a Gasoline Flame," Stanki I Instrument, 16, Nos. 10-11, 1945

BR-52059019

GORFATOV, N. I.

Chkalov (-1946-)

Candidate of Technical Sciences

"Strengthening the Feed in Cutting Metals with High-Speed Friction Saws" Stanki I Instrument, 17, No. 9, 1946

BR-52059019

GORBATOV, N.I., kandidat tekhnicheskikh nauk.

Force of cutting metals with high-speed friction saws. Stan. i instr. 18 no.4:15-19 Ap '47. (MLRA 7:11)
(Metal cutting)

GORBATOV, N.I.

Pily treniia. Kiev, Mashgiz, 1950. 78, (2) p. illus.

Bibliography: p. (80).

Friction saws.

DLC TJ1233.G58

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GORBATOV, N.I.

Mechanization of statistical data processing in the Soviet Union. Stat szemle 41 no.1:81-84 Ja '63.

1. Szovjetunio Kozponti Statisztikai Hivatala Kozponti Gepi Adatfeldolgozo Allamasanak igazgatoja.

GORBATOV, N. M. (Engr)

"Calculation of Currents and Voltages for Short Circuits with a Simultaneous Phase Break," Elektrichestvo, No.7, 1949.

Leningrad Polytech. Inst. M. I. Kalinin

GORBATOV, N. M.

The following is among dissertations of the Leningrad Polytechnic Institute imeni Kalinin:

"Analytic Methods of Determining Currents and Voltages During Short Circuits with Simultaneous Phase Break." 20 October 1950. An examination is made of the problem of reducing the circuit of the network under the given conditions to the most simple equivalent circuits with a minimum number of parameters; different methods are examined for determing the parameters of equivalent circuits or calculating coefficients of analytic equations are given.

SO: M-1048, 28 Mar 56

PA 228T48

GORBATOV, N. M.

USSR/Electricity - Power Systems Apr 52
Short Circuits

"The Calculation of Short-Circuit Currents and Volt
ages," N. M. Gorbatov, Cand Tech Sci, Leningrad
Polytech Inst imeni Kalinin

"Elektrichestvo" No 4, pp 15-19

Elec circuit theory is applied to the calcn of
short-circuit currents and voltages for simultane-
ous phase interruption. Gives formulas for these
operating conditions in 2 forms. The parameters
of the eqs are detd from the parameters of the
individual sequence circuits. Submitted 27 Jun
51.

228T48

USSR/Electricity - Circuit Analysis Oct 52

"Calculation of Short-Circuit Currents in Three-Phase Circuits With Sequence Asymmetry," N. M. Gorbatov, Cand Tech Sci, Leningrad Polytech Inst imeni Kalinin

"Elektrichestvo" No 10, pp 49-53

Gives a method for detg currents and voltages for an asymmetric short circuit in 3-phase systems, having sequence asymmetry. Illustrates the application of the general method to some special cases. Submitted 5 Feb 52.

GORBATOV, N.M., kandidat tekhnicheskikh nauk.

Measuring active and reactive power in three-phase networks under symmetrical loading. Energetik 5 no.3:33-34 Mr '57.
(Electric networks)
(MLRA 10:3)

AUTHOR: Gorbatov, N. M., Candidate of Technical Sciences

SOV/105-58-7-8/32

TITLE: On the Calculation of Three-Phase Current Circuits With an Arbitrary Number of Asymmetric Short Circuits and Open Conductors (K raschetu trekhfaznykh tsepey s proizvol'nym chislom nesimmetrichnykh korotkikh zamykaniy i razryvov faz)

PERIODICAL: Elektrichestvo, 1958, Nr 7, pp. 35-41 (USSR)

ABSTRACT: A symmetric three-phase system with n-points of asymmetry is investigated. The method known from Ref 3 is applied for the setting-up of the equations. The system (1) of equations is written down for this case.

$$\nu_{ik}^{(0)} = \nu_{ik}^{(\mu)} = 0,$$

where $\nu_{ik}^{(\mu)}$ is the exponent of the operator a. All other values of the exponent can be obtained either directly or by the application of the rules recommended in Ref 3. The limiting conditions for the asymmetry must be assumed in the form proposed in Table 1 in order that the left part of the system (1) has parameters Z_{kk} independent of the transient

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On the Calculation of Three-Phase Current Circuits With an Arbitrary Number of Asymmetric Short Circuits and Open Conductors

resistances r in the asymmetry points corresponding to the proposal by N. N. Shchedrin (Ref 1). Usually, (1) is solved according to the formulae developed by Kramer. The method developed by Gauss gives a more simple solution. When the system (1) shows symmetric factors $Z_{ki} = Z_{ik}$, the calculation may be further simplified by applying the method of square roots. - The general case of asymmetry is investigated here and the corresponding formulae are derived. It appears from system (18) of the equations for certain constant factors S_{ki} that the factors S_{kj} and S_{ik} are conjugate complex and that it is therefore sufficient to calculate one of them. Thus, even in the most general case the solution of the system (1) is not more complicated than the solution of a symmetric system. There are three cases with any kind of asymmetry: 1) when the special phase appears in the calculation and 2) and 3) when the special phase does not appear in the calculation. Regarding formulae (18), (19) and (20) the conclusion is drawn that the solutions of the system (1) for the two latter cases are also conjugate complex and that it is thus sufficient to determine one of them.-

SOV/105-58-7-8/32

On the Calculation of Three-Phase Current Circuits With an Arbitrary Number of Asymmetric Short Circuits and Open Conductors

Concluding, an example of calculating a circuit with a short-circuit and two breaks in the continuity is given. There are 2 figures, 2 tables, and 5 Soviet references.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. Kalinina (Leningrad Polytechnical Institute imeni Kalinin)

SUBMITTED: December 11, 1957

1. Electric currents--Circuits 2. Electric currents--Mathematical analysis

Card 3/3

DROGAYTSEV, A.D.; GORBATOV, O.I.

Method of local hypothermia of the kidneys in an experiment. Eksper. khir. i anest. 9 no.6:76-78 N-D '64. (MIRA 18:7)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii (zav. -deystvitel'nyy chlen AMN SSSR prof. V.V.Kovanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

GORBATOV, P. P., ENGINEER Cand Tech Sci

Dissertation: " Investigation and Experimental-Theoretical Substantiation of Selecting the Operational Memebers of Machines for picking Kok-Saghyz Seeds."

10 May 49

All-Union Sci Res Inst for Mechanization and Electrification of Agriculture

SO Vecheryaya Moskva
Sum 71

FEDOROV, V.A., laureat Stalinskoy premii; GORBATOV, P.P., kandidat tekhnicheskikh nauk.

New machines and implements for cultivating vegetable crops.
Sel'khozmashina no.1:3-5 Ja '54. (MLRA 7:1)

GORBATOV, P.P., kandidat tekhnicheskikh nauk.

Mechanization of vegetable gardening in hotbeds. Sel'khozmashina no.6:7-8 Je '54. (MLRA 7:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya. (Agricultural machinery)

Gorbatov, P.P.

GORBATOV, P.P., kand.tekhn.nauk; LUBKOV, A.I., inzh., retsenzent; AVSHAROVA, Ye.G., red.izd-va; POPOVA, S.M., tekhn.red.

[Machinery for vegetable gardening] Mashiny dlia ovoshchevodstva. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1955. 135 p. (MIRA 11:2)
(Vegetable gardening)
(Agricultural machinery)

GORBATOV, P.P., kandidat tekhnicheskikh nauk

Grading potatoes. Sel'khozmashina no.5:5 My '55 (MLRA 8:6)
(Potatoes--Grading) (Agricultural machinery)

GORBATOV, P. V.

GORBATOV, P. V. "On the use of a solution of wood ash alkali in the washing of hands in surgical practice", Sbornik nauch. trudov vrachey Mordov. ASSR, Saransk, 1948, p. 44-46.

SO: U-3261, 10 april 53 (Letopis - Zhurnal 'nykh Statey No. 11, 1949)

GORBATOV, P. YE.

USSR/Chemistry - Concrete, special applications of FD-883

Card 1/1 Pub.50 - 16/24

Author : Gorbatov, P. Ye., Dukhovlinov, D. P.

Title : Experience in the application of betonite reinforcements at mining works

Periodical : Khim. prom., No 6, 372-373 (52-53), Sep 1954

Abstract : Experience in the use of betonite reinforcements at the Alekseyevsk sulfur mine is described (betonites and concrete mixes composed of cement, rubble, and sand or cement, sand, and lime).

Institution : Main Administration of the Chemical Raw Materials Mining Industry ("Glavgorkhimprom")

Submitted :

GORBATOV P. YE.

SERGEYEV, A.A., red.; ANPILOGOV, I.M., red.; ASSONOV, V.A., red.; BABAYANTS, N.A., red.; BABOKIN, I.A., red.; BALAMUTOV, A.D., red.; BOGOROD-SKIY, N.N., red.; BOLOMENKO, D.N., red.; BUCHNEV, V.K., red.; VAKHMINTSEV, G.S., red.; VORONKOV, A.K., red.; GARKALENKO, K.I., red.; GORBATOV, P.Ye., red.; GOLOVLEV, V.Ya., red.; DOKUCHAYEV, M.M., red.; DUBNOV, L.V., red.; YEVTEYEV, A.D., red.; YEREMENKO, Ye.K., red.; ZENIN, N.I., red.; KRIVONOGOV, K.K., red.; KUPALOV-YAROPOLK, I.K., red.; MATSYUK, V.G., red.; NIKOLAYEV, S.I., red.; ONISHCHUK, K.N., red.; PETROV, K.P., red.; PILYUGIN, B.A., red.; PLATONOVA, A.A., red.; POLESIN, Ya.L., red.; POKROVSKIY, L.A., red.; POMSTUN, D.Ye., red.; POLYUSHKIN, A.Kh., red.; REYKHER, V.P., red.; SEDOV, N.A., red.; SIDORENKO, I.T., red.; FIDELEV, A.A., red.; CHAKHMAKHCHEV, A.G., red.; CHEMODUROV, M.Ya., red.; SHUMAKOV, A.A., red.; YARE-MENKO, N.Ye., red.; PARTSEVSKIY, V.N., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Standard safety regulations for blasting operations] Edinye pravila bezopasnosti pri vzryvnykh rabotakh. Izd.2. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 318 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.
(Mining engineering--Safety measures)

AID P - 4698

Subject : USSR/Aeronautics - Training (sports)

Card 1/1 Pub. 58 - 10/17

Authors : Gorbatov, S., Chairman, Model-Building Section, Moscow Oblast' Committee, Savarskiy, N., DOSAAF Senior Inspecting Engineer, Moscow Oblast' Committee, DOSAAF

Title : How we train instructors-volunteers

Periodical : Kryl. rod., 5, 14, My 1956

Abstract : The article describes the work of the model-building section of the Moscow Oblast' Committee, DOSAAF, in training instructors - volunteers for the rapidly growing in number local model-building circles. Results achieved in the various regions of the Oblast are outlined, and measures for eliminating the various noted shortcomings suggested.

Institution : None

Submitted : No date

GORBATOV, S.

85-58-5-29/38

AUTHORS: Gorbatov, S. and Nasonov, V., Master of Sports

TITLE: Make it At a Pioneers' Camp! (Sdelay v pionerskom lagere!)
"Dove of Peace" Flying Model (Letayushchaya model' Golub' Mira)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 5, p 29 (USSR)

ABSTRACT: The authors give directions for building this model.
There is 1 diagram.

AVAILABLE: Library of Congress

Card 1/1 1. Airplanes - Models - Instructions

85-58-7-10-45

AUTHORS: Gorbatov, S., Chairman of Model-aircraft Building Section, and Savarskiy, N., Senior Engineer-Inspector of the Moscow Oblast DOSAAF Committee

TITLE: The Spartacus Games are On (Idet Spartakiada)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 7, p 10 (USSR)

ABSTRACT: The authors report on the participation of Moscow Oblast Komsomol model-aircraft builders in the Spartacus Games.

ASSOCIATION: Moscow Oblast DOSAAF Committee

Card 1/1 1. Airplanes--Model building--Competitions

GOL'DSHTEYN, M.N.; GORBATOV, S.P.; REZNIKOV, O.M.

Bearing capacity and compressibility of sandy foundations under deep footings. Osn., fund. i mekh. grun. 4 no.6:3-6 '62.
(MIRA 16:1)

(Foundations) (Sandy soils)

GORBATOV, S.P.

Testing untapered metal piles with a horizontal load. Vop. geotekh. no.6:65-73 '63. (MIRA 17:9)

GORBATOV, S. P., inzh.; MITS, I. S., inzh.

Testing pile shells with vertical loading. Transpstroi 13 no. 11:45-47 N '63. (MIRA 17:5)

GORBATOV, S.P. (Dnepropetrovsk); GOL'DSHTEYN, V.M. (Dnepropetrovsk)

Reliable covering for wire transducers used in testing pile shells. Osn. fund.i mekh.grun. 6 no.1:30 '64. (MIRA 17:2)

GETSOV, G., avtolyubitel'; GORBATOV, V.; KSANDROV, N., shofer.

Readers' suggestions. Za rul. 16 no.11:19 N '58. (MIRA 12:1)

1.Uchkhoz "Krasnyy veterinar," Khar'kovskaya oblast' (for Ksandrov)
(Automobiles)

POZHARISKAYA, L., kand.biol.nauk; LIBERMAN, S., kand.tekhn.nauk; GORBATOV, V., inzh.; IVANOV, G.

Coagulation of blood of slaughter animals in a continuous apparatus. Mias.ind.SSSR 31:50-51 '60. (MIRA 13:9)
(Blood--Coagulation)

MANDRUSHER, A., prof.; GORBATOV, V., inzh.

Improving the technology of production. Mias.ind.SSSR 31 no.3: 12-14 '60. (MIRA 13:9)

(Meat industry)

GEVORGYAN, B.; GORBATOV, V.; TROFIMOVSKIY, V.; SHNITSER, S.

Improving planning in the meat industry. Mias.ind.SSSR 32 no.2: 35-36 '61. (MIRA 14:7)
(Meat industry) (Industrial management)

GAYEVOY, Ye.; GORBATOV, V.

Introduction of advanced methods for the processing of raw hides. Mias. ind. SSSR 32 no.4:20-21 '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti.

(Hides and skins)

VIRNIK, D.; GORBATOV, V.; LIBERMAN, S.

Resources of the gelatin industry. Mias. ind. SSSR 32 no.4: 25 '61. (MIRA 14:9)

(Gelatin) (Feeds)

GORB[illegible], V.

Co-ordination of research in the meat processing industry. Mias. ind. SSSR 32 no.5:43-45 '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti.
(Meat industry--Research)